Volume Index—1978
Volume Forty-Six

This index serves as a ready reference to RSC articles and product announcements published from January through December 1978. The figure following the date of issue refers to the page number.

A

A/C Equipment, Commercial, Parts 2B Through 2F: Service Information Nov-21
Advance Registration, RSES International Conference Sep-32
Air Cleaners, Electronic, A Portrait of the Market Feb-12
Air, Conditioned *By Everett W. Lytle* Feb-12
Air Conditioning, Commercial, Part 2A—Refrigeration System Components Oct-36
Air Conditioning Equipment, Commercial, Part 1C ... Troubleshooting, Electric Heat Aug-21
Airprobe,' Ammons on the *By Joe Ammons* May-28
All Industry Service Seminar, Dec. 9 & 10 ....Nov-30
Ammons, Letters to Joe Feb-40
Ammons on the 'Airprobe' *By Joe Ammons* May-28
Anniversary, Larkin Coils Celebrates 50th Apr-44
A Portrait of the Market, Electronic Air Cleaners Feb-12
Applying Load Management For Supermarket Energy Savings *By J. D. Sedgwick and E. R. Williams* Mar-29
Atlanta Show Sets New Records Apr-18
Attention: Service Managers and Training Directors Mar-50

B

Briefing for Awareness, Humidification Sales Aug-18
Building Profits *By William M. Hott* Feb-13
Business, Family-Owned *By Frank Butrick*
- 'Chip Off the Old Block,' Part I Sep-25
- 'Chip Off the Old Block,' Part II Oct-33
- Is Your Business Built to Last? Nov-18
- Non-Productive Employee, The—Carry or Fire? Feb-22
- Should Strong Brothers Carry a Weak One? Jan-7
- Turned-Off Son, The ... Part I Mar-11
- Turned-Off Son, The ... Part II Apr-17
- Turned-Off Son, The ... Part III Jun-28
- Turned-Off Son, The ... Part IV Jul-9
- Turned-Off Son, The ... Part V Aug-13

C

Can You Calculate Compression Ratio? *By John D. Bopp* Jun-22
Charts Show How System Efficiency Affects Capacity, Energy Conservation and Cost *By Floyd Parker* May-19
'Chip Off the Old Block,' Part I, Family-Owned Business *By Frank Butrick* Sep-25
'Chip Off the Old Block,' Part II, Family-Owned Business *By Frank Butrick* Oct-33
Cleveland Pilot Seminar On Controls Draws Over 400 ....May-32
Commercial Air Conditioning, Part 2A—Refrigeration System Components Oct-36
Commercial A/C Equipment, Parts 2B Through 2F: Service Information Nov-21
Commercial Air Conditioning Equipment, Service Procedures for May-23
Commercial Air Conditioning Equipment, Part 1C ... Troubleshooting, Electric Heat Aug-21
Commercial Humidification Is A Fully Developed Profit Center Aug-16
Compressor Could Talk, If The *By Gene Smith* Jun-24
Compression Ratio, Can You Calculate *By John D. Bopp* Jun-22
Conditioned Air *By Everett W. Lytle* Feb-12
Controls, Cleveland Pilot Seminar On, Draws Over 400 ....May-32
Converting From R-22 to R-502 *By Dr. Ralph Downing* Nov-19
Cost-Saving Team, You and Your Instruments Are a Mar-14

D

Distribution *By Bruce H. McLain* Feb-16
Dunham-Bush Backs RSES Heat Pump Course Apr-37

E

EEI Endorses RSES Heat Pump Course Jul-35
Electric Heat, Troubleshooting, Commercial Air Conditioning Equipment Aug-21
Elliott-Lewis Story, The, A Pattern for the Industry Oct-14
Energy Management, Pilot Seminar Nov-33
'Energy Management Specialists' *By J. D. Sedgwick* Jun-12
Energy Savings, Applying Load Management For Supermarket *By J. D. Sedgwick and E. R. Williams* Mar-29
Energy Savings Through Proper Management, RSES Seminar Announcement Aug-27
Equipment, Service Procedures for Commercial Air Conditioning May-23

F

Family-Owned Business *By Frank Butrick*
- 'Chip Off the Old Block,' Part I Sep-25
- 'Chip Off the Old Block,' Part II Oct-33
- Is Your Business Built to Last? Nov-18
- Non-Productive Employee, The—Carry or Fire? ..Feb-22
- Should Strong Brothers Carry a Weak One? Jan-7
- Turned-Off Son, The ... Part I Mar-11
- Turned-Off Son, The ... Part II Apr-17
- Turned-Off Son, The ... Part III Jun-28
- Turned-Off Son, The ... Part IV Jul-9
- Turned-Off Son, The ... Part V Aug-13

Fan Motors, Fractional Horsepower, Identifying the 'Unknown Soldiers' *By B. E. Lichtenstiger* Oct-20
Fractional Horsepower Fan Motors, Identifyng the 'Unknown Soldiers' Oct-20
Fully Developed Profit Center, Commercial Humidification Is A Aug-16

G

Gas Heat, Troubleshooting ...Sep-21
Guidelines for Planning Your Las Vegas Trip May-29

H

Heat, Troubleshooting Gas ...Sep-21
Heating by Refrigeration, Water *By David A. Ritchie, P.E.* ...Oct-23
Heat Pump Course, Dunham-Bush Backs RSES Apr-37
Heat Pump Course, EEI Endorses RSES Jul-35
Heat Pump System, Solar Assisted, How It Works in Real Life *By Gordon Van Zuiden* Jul-16
Heat Pump System, Solar Assisted, Now Let's Put It All Together Jul-12
Heat Pump Systems, Solar Assisted, R & D Shows the Way Jul-22
Heat Pumps, Third Generation and 'The Philadelphia Story' *By Paul Greiner* Jan-21
Heat Pumps, Troubleshooting .Jun-26
Heat Pumps and Water ... On the Rocks *By Merle E. Newman* Feb-23
Heat Transfer, Using Field Tested Liquid *By Richard H. Montgomery With Jim Budnick* Nov-12
'Highlight Report,' RSES 40th International Conference Jan-18
Hotels and Motels, Load Management, How the Contractor Gets Involved Jul-27
How It Works in Real Life, Solar Assisted Heat Pump System *By Gordon Van Zuiden* Jul-16
How the Contractor Gets Involved, Load Management—Hotels and Motels Jul-27
How Water Treatment Saves Energy and Dollars *By Water Services Div., U.O.P. Inc.* May-14
Humidification, Commercial, Is A Fully Developed Profit Center Aug-16
Humidification Sales ... Briefing for Awareness Aug-18

I—K

Identifying the 'Unknown Soldiers,' Fractional Horsepower Fan Motors *By B. E. Lichtenstiger* Oct-20
If the Compressor Could Talk *By Gene Smith* Jun-24
Index, MSMC Hot Line Aug-7
Instruments, Servicing/Installing, Showcase '78 For the HVAC & R Contractor Mar-18
Instruments, You and Your, Are a Cost-Saving Team Mar-14
International Conference, Advance Registration, RSES Sep-32
International Conference, Preview: 41st RSES Aug-24
International Conference, RSES 40th, 'Highlight Report' Jan-18
Is Your Business Built to Last, Family-Owned Business *By Frank Butrick* Nov-18

L

Larkin Coils Celebrates 50th Anniversary Apr-44
Las Vegas Trip, Guidelines for Planning Your May-29
Letters to Joe Ammons Feb-40
Lewis Story, The Elliott-, A Pattern for the Industry Oct-14
Load Management, Applying For Supermarket Energy Savings *By J. D. Sedgwick and E. R. Williams* Mar-29
Load Management—Hotels and Motels, How the Contractor Gets Involved Jul-27
Load Management, Reducing Utility Costs Through *By J. D. Sedgwick and E. R. Williams* Jan-12

M

Management, Energy Savings Through Proper, RSES Seminar Announcement Aug-27
Management, Pilot Seminar—Energy Nov-33
Management Specialists, Energy Jun-12
Membership: 28,288, We're On the Move RSES Announces .Sep-16
Moisture: Underground Enemy No. 1 .....Sep-26
MSMC Hot Line Index Aug-7
MSMC Hot Line, The Jan-16; Feb-19; Mar-54; Apr-12; May-20; Jun-17; Jul-6; Aug-9; Sep-9; Oct-27; Nov-25; Dec-9

N

New Products

Air Cleaner Feb-6
Air Humidifier Oct-4
Air Velocity Meter Apr-4
Ammeters Oct-11
Ammeter-Ohmmeter-Voltmeter Jan-8
Antifoulant Oct-5
Axial Fan Condensers ...Oct-4

Ball Valve Jun-4
BTU Meter Oct-5
Burnout Block Aug-46

Circuit Breakers Oct-4
Clock Thermostat Nov-4
Closed Circuit Coolers ...Oct-6
Compressors ...Feb-32; Apr-6; Sep-4
Combination Starter Feb-32
Condensing Units .Feb-4; Apr-4
Control Case Feb-4
Control Panels Sep-4
Cooler/Freezer Doors Oct-6
Crankcase Heater Sep-53

Detergent Jul-4
Dial Thermometers May-4
Digital Multi-Meter Nov-4
Digital Multi-Tester Oct-11
Digital VOM Oct-4
Digital V-O-M Accessories Aug-45
Disconnect Fitting Apr-6
Disc Thermostats Oct-6
Door Weatherstripping ...Jan-4
Dual Stage Vacuum Pump Aug-4
Duct Humidifier Nov-4

Efficiency Calculator Aug-5
Electric Drill Nov-4
Electric Motors Jan-8
Electronic Air Cleaner Aug-5
Electronic Temp. Alarm ..Sep-5
Elevating System May-4
Energy Timers Sep-4
Epoxy Putty Jun-4

Fast Charging Cylinder ...Feb-4
Folding Scissors Apr-4

Gas Furnaces Jan-4; Feb-32; Aug-44;
Grip Kit Oct-11

Heat Exchangers Feb-33
Heat Exchange Unit Jul-4
Heat Inverter Jan-35
Heat Pumps Feb-9; Mar-4; Mar-8; May-4; Sep-4
Heat Pump Humidifiers Sep-13; Oct-49; Nov-4
Heat Reclaim Heater Jan-4
Heat Recovery System ...Nov-4
Heat Temp. Controller Mar-8
Heat Transfer Tubing Sep-4
Hermetic Compressors ...Jan-4
Hook-On Meters Jun-4
Hosing Feb-35
Humidity Indicator Aug-4

Ice Cube Dispenser Aug-44
Ice Cube Maker Aug-45
Ice Merchandiser Feb-6; Feb-35; Sep-7
Industrial Humidifier Aug-4; Aug-46
Industrial Multimeters ...Nov-52

volume index

Instrument Case Aug-5
Insulating Tape Sep-53
Insulation Kit Oct-4
Insulation Tester Jun-4

Leak Detector Aug-48
Line Tap Valves Jun-4
Low Velocity Unit Coolers Oct-11

Make-Up Air Control Feb-4
Mechanical Packing Oct-6
Megohmmeter May-4
Modernization Packs Apr-4
Modular Flakers Oct-5
Moisture Resistant Motors Sep-4
Multitester Mar-4; Aug-46

Open-Type Compressors .Jun-4

Photoelectric Tachometer May-4
Pipe Insulating Tape Mar-4
Piping Cushion Feb-35
Plastic Coating Aug-48
Portable Parts Washer ...Mar-8
Pressure Switches Feb-35
Pressure Temp. Switches Feb-35
Pressure Washer Feb-33; Oct-49
Primary Oil Control Sep-13
Produce Cases Oct-5
Pump Aug-43

Ratchet Screwdriver Sets .Sep-4
Refrigeration System Aug-4
Relays Aug-46
Remote Refrig. Systems ..Mar-4
Replacement Motors ...Aug-45
Roof Mount A/C Systems .Mar-4

Sand Media Filter Feb-9
Screw Compressor Feb-9
Service Manifold May-4
Service Valve Jan-4
Setback Thermostat Jun-4; Sep-13
Single Pkg. Heat Pumps ..Oct-4
Solar Control ...Jan-35; Nov-51
Solar Control Tester Apr-4; Aug-43; Aug-44
Solar Energy Heat Pump Aug-46
Solar Heat Exchanger ...Feb-32
Solar Meter Mar-4
Solar Monitor Jul-4
Solar Pool Heater Oct-4
Sound Absorbing Panel .Aug-46
Split System A/C Oct-11
Split System Heat Pump ..Apr-4
Steam Humidifier Apr-6
Stop Valves Feb-4; Apr-4

Temp./Millivolt Tester ...Aug-44
Temperature Tester Feb-6; Nov-4
Test Instruments Jan-8; Feb-4; Aug-44
Thermo Expansion Valve .Sep-7
Thermostats Feb-9; Oct-4
Thru-The-Wall Heat Pumps Jan-35
Time Delay Relay Sep-7
Tubing Tools Jan-9
Two-Stage Compressors .Feb-6

Unit Evaporators Aug-4
Urethane Foam Aug-48

Vacuum Pump May-4; Jun-4
Vapor Recovery Unit ...Aug-44
Vapor Tension Thermometer Aug-4
Vent Damper Kit Aug-46
Vinyl Foam Tape Apr-4
Volt-Ohm-Ammeter Mar-6
Volt-Wattmeter Jan-4
Voltage Detector Jan-9
Voltage Tester Oct-11

Walk-In Cooler Nov-54
Water Conditioner Aug-4; Aug-5
Water Coolers Mar-6
Water Regulating Valve .Feb-32
Water Tap Valve Nov-51
Non-Productive Employee—Carry or Fire?, Family-Owned Business *By Frank Butrick* Feb-22
Now Let's Put It All Together, Solar Assisted Heat Pump System Jul-12

O

Ozone, What About Feb-14

P—Q

Pattern for the Industry, A, The Elliott-Lewis Story Oct-14
'Philadelphia Story,' The, Third Generation Heat Pumps and *By Paul Greiner* Jan-21
Pilot Seminar on Controls Draws Over 400, Cleveland May-32
Pilot Seminar—Energy Management Nov-33
Portrait of the Market, A, Electronic Air Cleaners Feb-12
Potential, Sales *Paul Jensen* ..Feb-15
Preview: 41st RSES International Conference Aug-24
Profits, Building *By William M. Hott* Feb-13

R

R & D Shows the Way, Solar Assisted Heat Pumps Jul-22
R-22 to R-502, Converting From *By Dr. Ralph Downing* Nov-19
Records, Atlanta Show Sets New Apr-17
Reducing Utility Costs Through Load Management *By J. D. Sedgwick and E. R. Williams* Jan-12
Refrigeration System Components, Part 2A, Commercial Air Conditioning Oct-36
Refrigeration, Water Heating by *By David A. Ritchie, P.E.* ...Oct-23
Rocks, Heat Pump and Water On the *By Merle E. Newman* ...Feb-23
RSES Announces Solar Seminars Apr-32
RSES Announces ... We're On the Move ... Membership: 28,288 .....Sep-16
RSES 40th International Conference 'Highlight Report' Jan-18
RSES 41st International Conference, Preview Aug-24
RSES Heat Pump Course, Dunham-Bush Backs ...Apr-37
RSES Heat Pump Course, EEI Endorses Jul-35
RSES International Conference, Advance Registration ...Sep-32
RSES Seminar Announcement, Energy Savings Through Proper Management Aug-27

RSES News Items:

Alabama State Association Meets Jul-40
Another Blockbuster For CARSES/Cal-Poly Workshop Mar-49
Atlanta Show Sets Records Apr-18

Certificate/Specialist Examinations 1978 Dates Feb-29; Mar-42; Apr-32
Cleveland Pilot Seminar On Controls Draws Over 400—Three More Planned May-32
Concurrent Meetings RSES/ARW Mar-41
Constitutional Amendments Jan-29

Dorfler, John, Is the RSES Man-of-the-Year Jan-22
Dunham-Bush Backs RSES Heat Pump Course Apr-37

Earn the "Big E" in '78 ..Apr-33
Education Is No Gamble—Conference Itinerary & Registration Sep-30
Education Will Highlight Las Vegas Conference ...Jun-33
EEI Endorses RSES Heat Pump Training Course Jul-35
Electrical Association Utilizes RSES Heat Pump Training Mar-41
Empire-Keystone Breaks Record Jul-45
Energy Savings Through Proper Management, Another RSES First Aug-27

Final Program Taking Shape Jul-38
41st International Educational Conference & Exhibit

.....Oct-35
Fox Valley Hosts Illinois State Association Nov-34

Great Smoky Mountain Chapter Hosts Volunteer State Association Jun-34
Guidelines for Planning Your Las Vegas Trip May-29

International Board of Directors To Select 1982 Conference Site This Month Oct-43

Luxaire Accepts RSES Heat Pump Certification ...Jan-22
Luxaire Announces 1978 School Program Apr-37

Ontario Hydro & Two More Manufacturers Endorse the RSES Heat Pump Training Course Jun-28

RSES 40th International Conference 'Highlight Report' Jan-18
RSES Has Successful Educational & Financial Year Oct-42
RSES/MSMC . . . Together We Can Do So Much Mar-50
RSES Pins Have a New Look Feb-34
RSES Plans Two Solar Service Seminars Mar-42; Apr-32
RSES Solar Seminar Jun-10; Jun-29

Service Engineers' Pilot Seminar, A, Energy Savings Through Proper Management .Nov-33
Service Seminar and Exhibit Sponsored by RSES/ARI Nov-30
SESE—Solar Energy for Service Engineers Jul-31
Society To Hold First Pilot Seminar on Controls Feb-29
Southern Nevada Chapter Invites You to the Showboat Hotel Aug-24; Aug-25
Spring MSMC Meeting Features Copeland Tour Jun-31
Sunshine City Hosts Sunshine State Sep-34

Third Generation Heat Pumps and 'The Philadelphia Story' Jan-21
39th Annual Conference of RSES Canada Jun-32
32nd Buckeye State Meeting Features a Heat Pump Seminar Jul-37
Three More Heat Pump Instructor's Seminars Feb-28

Twenty-Third UMRA Conference Highlights Jun-44

Warning Your Work Can Be Hazardous *By A. F. Holmgren* Aug-23

S

Sales, Humidification, Briefing for Awareness Aug-18
Sales Potential *Paul jensen* ...Feb-15
Service Information, Commercial A/C Equipment, Parts 2B Through 2F Nov-21
Service Managers and Training Directors, Attention Mar-50
Service Procedures for Commercial Air Conditioning Equipment May-23
Service Seminar, All Industry Dec 9 & 10 .....Nov-30
Servicing/Installing Instruments For the HVAC & R Contractor ...Mar-18
Should Strong Brothers Carry a Weak One?, Family-Owned Business *By Frank Butrick* Jan-7
Showcase '78—Servicing/Installing Instruments For the HVAC & R Contractor Mar-18
Solar Assisted Heat Pump System, How It Works in Real Life *By Gordon Van Zuiden* Jul-16
Solar Assisted Heat Pump System, Now Let's Put It All Together Jul-12
Solar Assisted Heat Pump Systems, R & D Shows the Way Jul-22
Solar Energy Systems, Using Field Tested Liquid Heat Transfer *By Richard H. Montgomery With Jim Budnick* Nov-12
Solar Seminars, RSES Announces Apr-32
Supermarket Energy Savings, Applying Load Management For *By J. D. Sedgwick and E. R. Williams* Mar-29
System Efficiency Affects Capacity, Energy Conservation and Cost, Charts Show How May-19

T

Third Generation Heat Pumps and 'The Philadelphia Story' *By Paul Greiner* Jan-21
Training Directors, Attention: Service Managers and Mar-50
Troubleshooting, Electric Heat, Commercial Air Conditioning Equipment Aug-21
Troubleshooting, Gas Heat ...Sep-21
Troubleshooting Heat pumps ..Jun-26
Turned-Off Son . . . Part I, Family-Owned Business *By Frank Butrick* Mar-11
Turned-Off Son . . . Part II, Family-Owned Business *By Frank Butrick* May-17
Turned-Off Son . . . Part III, Family-Owned Business *By Frank Butrick* Jun-28
Turned-Off Son . . . Part IV, Family-Owned Business *By Frank Butrick* Jul-9
Turned-Off Son . . . Part V, Family-Owned Business *By Frank Butrick* *Aug-13*

U

Underground Enemy No. 1, Moisture Sep-26
Using Field Tested Liquid Heat Transfer *By Richard H. Montgomery With Jim Budnick* Nov-12
Utility Costs Through Load Management, Reducing *By J. D. Sedgwick and E. R. Williams* Jan-12

V

Vacuum Gages?, No One!, Who Needs *By Ralph C. Downing* Jun-20

W—X

Water Heating by Refrigeration *By David E. Ritchie, P.E.* ...Oct-23
Water, Heat Pump and . . . On the Rocks *By Merle E. Newman* Feb-23
Water Treatment Chemicals Mean To Energy Conservation, What Do *By Jerry Campbell* May-12
Water Treatment Saves Energy and Dollars, How *By Water Services Div., U.O.P. Inc.* May-14
We're On the Move . . . Membership: 28,288, RSES Announces Sep-16
What About Ozone? Feb-14
What Do Water Treatment Chemicals Mean To Energy Conservation? *By Jerry Campbell* May-12
Who Needs Vacuum Gages? No One! *By Dr. Ralph C. Downing* Jun-20

Y—Z

You and Your Instruments Are a Cost-Saving Team Mar-14

A Special Index For The MSMC Hot Line Will Be Published In January 1979